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1 [PCF parallel Fortran extensions](#)



CORPORATE The Parallel Computing Forum

September 1991 **ACM SIGPLAN Fortran Forum**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: [pdf\(2.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This proposed standard was constructed as an effort to provide a uniform spelling of well understood p
conscious effort to resist the lure of new constructs unless the evolutionary path from existing practice

2 [GPGPU: general purpose computation on graphics hardware](#)



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lei
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(63.03 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerf
graphics architectures provide tremendous memory bandwidth and computational horsepower, with ful
processing units that support vector operations up to full IEEE floating point precision. High level langu
hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

3 [AGM: a dataflow database machine](#)



Lubomir Bic, Robert L. Hartmann

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.69 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

In recent years, a number of database machines consisting of large numbers of parallel processing eler
Unfortunately, there are two main limitations in database processing that prevent a high degree of par.
bandwidth of the underlying storage devices and the concurrency control mechanisms necessary to gu
problem with conventional approaches is the lack of a computational model capable of utilizing th ...

4 [An algorithm for high accuracy name pronunciation by parametric speech synthesizer](#)

Tony Vitale

September 1991 **Computational Linguistics**, Volume 17 Issue 3

Publisher: MIT Press

Full text available: [pdf\(1.50 MB\)](#) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Automatic and accurate pronunciation of personal names by parametric speech synthesizer has becom

within the telecommunications industry, since the technology is needed to provide new automated service assistance (number to name). Within text-to-speech technology, however, it was not possible to offer the inability of a text-to-speech device optimized for a specific language (e.g., American English ...

5 Equal rights for functional objects or, the more things change, the more they are the same



Henry G. Baker

October 1993 **ACM SIGPLAN OOPS Messenger**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(2.61 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We argue that intensional *object identity* in object-oriented programming languages and databases is too semantics. A corollary is that "functional" objects have extensional semantics. This model of object identity forms of relational algebra, provides cleaner semantics for the value-transmission operations and built-in programming language, and eliminates the confusion surrounding "ca ...

6 Fortran 8X draft



Loren P. Meissner

December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: pdf(21.36 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Standard Programming Language Fortran. This standard specifies the form and establishes the intent of the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in the standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 77". A Fortran 77 conforming FORTRAN 77 program is standard conforming under this standard. New features can be ...

7 A Semi-Decision Procedure for the Functional Calculus



Joyce Friedman

January 1963 **Journal of the ACM (JACM)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(1.41 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Automatic Proofs of Theorems in Analysis Using Nonstandard Techniques



W. W. Bledsoe, A. Michael Ballantyne

July 1977 **Journal of the ACM (JACM)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

9 A theory of using history for equational systems with applications



Rakesh M. Verma

September 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 5

Publisher: ACM Press

Full text available: pdf(2.70 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Implementation of programming language interpreters, proving theorem of the form $A=B$, implementing program optimization are all problems that can be reduced to the problem of finding a normal form for a set of equations. In 1980, Chew proposed an elegant congruence closure based simplifier (CCNS) for a language that stores the history of its computations in a compact data structure. In 1990, Verma and Rao ...

Keywords: congruence-closure algorithm, equational logic, proof theory, rewrite system transformation

10

Mobile objects in distributed Oz



Peter Van Roy, Seif Haridi, Per Brand, Gert Smolka, Michael Mehl, Ralf Scheidhauer

September 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 1:

Publisher: ACM Press

Full text available: [pdf\(484.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

Some of the most difficult questions to answer when designing a distributed application are related to how data is distributed between sites and when and how to transfer it. Network-transparent distribution, the property that a process can move how it is partitioned among sites, does not directly address these questions. Therefore we propose to extend the current network behavior that enables efficient distributed programming ...

Keywords: latency tolerance, mobile objects, network transparency

11 Special issue on computational phonology: Regular models of phonological rule systems

Ronald M. Kaplan, Martin Kay

September 1994 **Computational Linguistics**, Volume 20 Issue 3

Publisher: MIT Press

Full text available: [pdf\(3.40 MB\)](#) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents a set of mathematical and computational tools for manipulating and reasoning about phonological relations and argues that they provide a solid basis for computational phonology. It shows in detail how to represent sets of context-sensitive rewriting rules and also to grammars in Koskenniemi's two-level formalism. The formal representation of phonological constraints that supports efficient generation and recognition ...

12 Java consistency: nonoperational characterizations for Java memory behavior



Alex Gontmakher, Assaf Schuster

November 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: [pdf\(305.72 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

The Java Language Specification (JLS) [Gosling et al. 1996] provides an operational definition for the semantics of the Java language. The definition remains unchanged in the JLS 2nd edition, currently under peer review, which relies on a semantics model, is very complicated. Several subsequent works have tried to simplify and formalize it. However, the current operational semantics, and thus have failed to highlight the intuition behind the operational semantics ...

Keywords: Java memory models, multithreading, nonoperational specification

13 A simulation model for same day care facility at a university hospital

Wafik H. Iskander, D. Mark Carter

December 1991 **Proceedings of the 23rd conference on Winter simulation**

Publisher: IEEE Computer Society

Full text available: [pdf\(594.02 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Efficient support for interactive service in multi-resolution VOD systems

Kelvin K. W. Law, John C. S. Lui, Leana Golubchik

October 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(261.23 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Advances in high-speed networks and multimedia technologies have made it feasible to provide video-on-demand services. However, it is still a challenging task to design a cost-effective VOD system that can support a large number of users with different quality of service (QoS) requirements and, at the same time, provide different types of VCR operations. It is recognized that VCR operations are important functionalities in providing VOD service, therefore ...

Keywords: Interactive services, Multi-resolution services, Multimedia servers, VOD systems



15 Special issue of the lexicon: Large lexicons for natural language processing: utilising the grammar

Bran Boguraev, Ted Briscoe

July 1987

Computational Linguistics, Volume 13 Issue 3-4

Publisher: MIT Press

Full text available:  pdf(1.66 MB)  Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#)

This article focusses on the derivation of large lexicons for natural language processing. We describe the environment linking a restructured version of the Longman Dictionary of Contemporary English to natural language processing. The process of restructuring the information in the machine readable version of the dictionary is discussed. We demonstrate how such lexicons can be used to construct 'theory neutral' lexical entries. We demonstrate how such lexicons can be used to construct 'theory neutral' lexical entries. We demonstrate how such lexicons can be used to construct 'theory neutral' lexical entries.


16 The complexity of probabilistic verification

Costas Courcoubetis, Mihalis Yannakakis

July 1995

Journal of the ACM (JACM), Volume 42 Issue 4

Publisher: ACM Press

Full text available:  pdf(4.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [info](#)

We determine the complexity of testing whether a finite state, sequential or concurrent probabilistic pr expressed in linear-time temporal logic. For sequential programs, we present an algorithm that runs in exponential in the specification, and also show that the problem is in PSPACE, matching the known low show that the problem can be solved in time polynomial in the program and doubly exp ...

Keywords: EXPTIME-complete, Markov chain, PSPACE-complete, automata, model checking, probabili

17 Channel routing of multiterminal nets

Shaodi Gao, Michael Kaufmann

July 1994

Journal of the ACM (JACM), Volume 41 Issue 4

Publisher: ACM Press

Full text available: pdf(1.80 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

This paper presents new upper bounds for channel routing of multiterminal nets, which answers the long-standing open question whether or not multiterminal problems really require channels two times wider than 2-terminal problems. We transform a multiterminal routing problem of density d into a so-called extended simple channel routing problem (ESCRP) of density $3d/2 + O(d \log d)$.

Keywords: VLSI layout, channel routing

18 Propositional computability logic II

Giorgi Japaridze

April 2006

ACM Transactions on Computational Logic (TOCL), Volume 7 Issue 2

Publisher: ACM Press

Full text available: pdf(250.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Computability logic is a formal theory of computational tasks and resources. Its formulas represent int
logical operators stand for operations on computational problems, and validity of a formula is understo
that always have algorithmic solutions. The earlier article "Propositional computability logic I" proved s
a sense) minimal nontrivial fragment **CL1** of computability log ...

Keywords: Computability logic, computational resources, game semantics, interactive algorithms, line


¹⁹ A program integration algorithm that accommodates semantics-preserving transformations

Wuu Yang, Susan Horwitz, Thomas Reps

July 1992

ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 1 Iss

Publisher: ACM Press

Full text available:  pdf(3.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [info](#)

Given a program Base and two variants, A and B, each created by modifying separate copies of Base, to determine whether the modifications interfere, and if they do not, to create an integrated program that has the portions of Base preserved in both variants. Text-based integration techniques, such as the one

Keywords: coarsest partition, control dependence, data dependence, data-flow analysis, flow dependence, program integration, program representation graph, static-single-assignment form

20 [Moshe: A group membership service for WANs](#)



Idit Keidar, Jeremy Sussman, Keith Marzullo, Danny Dolev

August 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3

Publisher: ACM Press

Full text available:  pdf(944.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [info](#)

We present Moshe, a novel scalable group membership algorithm built specifically for use in wide area partitions. Moshe is designed with three new significant features that are important in this setting: it allows out-of-date memberships; it requires a single round of messages in the common case; and it employs a client-server architecture. Furthermore, Moshe's interface supplies the hooks needed to provide clients with full functionality.

Keywords: Group communication systems, group membership, partitionable group membership, view replication, area networks

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